The documentation and process conversion measures necessary to comply with this revision shall be completed by 20 January 1999 INCH-POUND

MIL-PRF-19500/550B 20 October 1998 SUPERSEDING MIL-S-19500/550A 30 June 1994

PERFORMANCE SPECIFICATION SHEET

SEMICONDUCTOR DEVICE, DIODE, SILICON, FAST-RECOVERY, HIGH CURRENT TYPES 1N6304, 1N6305, 1N6306, AND R TYPES JAN, JANTX, JANTXV, JANHC, AND JANKC

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

- 1.1 <u>Scope</u>. This specification covers the performance requirements for silicon, high efficiency fast recovery switching power rectifier diodes. Three levels of product assurance are provided for each encapsulated device type as specified in MIL-PRF-19500, and two levels of product assurance for each unencapsulated device type die.
- 1.2 Physical dimensions. See figure 1 (DO-203AB) formerly DO-5 and figures 2, 3, 4 and 5 for JANHC and JANKC (die) dimensions.
 - 1.3 Maximum ratings. Unless otherwise specified, $T_C = +25$ °C.

| Types | V _R | VRWM | I _O T _C = +100°C 1/ 2/ | I_{FSM} $T_{C} = -55^{\circ}C$ $t_{p} = 8.3 \text{ ms}$ | t _{rr} | V _{FM} I _{FM} = 70 A (pk) duty cycle ≤ 2 percent t _p = 300 μs max | I _R at rated I _R | R _θ JC |
|-------------------------------------|---------------------------------|---------------------------------|--|---|----------------------|--|--|-------------------------|
| 1N6304, R 1N6305, R 1N6306, R | <u>V dc</u> 50 100 150 | <u>V dc</u> 50 100 150 | A dc 70 70 70 | A dc 800 800 800 | ns 50 50 50 | <u>V (pk)</u> 0.975 0.975 0.975 | μ <u>A dc</u> 25 25 25 | <u>°C/W</u> 0.8 0.8 0.8 |

- $\underline{1}$ / Derate linearly, 875 mA/°C from T_C = +100°C to +150°C, and 1,050 mA/°C above T_C > +150°C.
- $\underline{2}'$ Higher I $_{O}$, up to 1.2 times I $_{O}$ is allowable provided that appropriate heat sinking or forced air cooling maintains the maximum junction temperature at or below +175°C as proven by the junction temperature rise time. Storage temperature: $T_{C} = -65$ °C to +175°C.

Operating temperature: $T_C = -65^{\circ}C$ to $+175^{\circ}C$.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Defense Supply Center Columbus, ATTN: DSCC-VAT, 3990 East Broad Street, Columbus, OH 43216-5000, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

<u>DISTRIBUTION STATEMENT A</u>. Approved for public release; distribution is unlimited.

FSC 5961

2. APPLICABLE DOCUMENTS

2.1 <u>General</u>. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 <u>Specifications, standards, and handbooks</u>. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-19500 - Semiconductor Devices, General Specification for.

STANDARD

MILITARY

MIL-STD-750 - Test Methods for Semiconductor Devices.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 <u>Order of precedence</u>. In the event of a conflict between the text of this document and the references cited herein (except for related associated specifications or specification sheets), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

- 3.1 Qualification. Devices furnished under this specification shall be products that are authorized by the qualifying activity for listing on the applicable qualified products list before contract award (see 4.2 and 6.3).
 - 3.2 Associated specification. The individual item requirements shall be in accordance with MIL-PRF-19500 and as specified herein.
- 3.3 <u>Abbreviations, symbols, and definitions</u>. Abbreviations, symbols, and definitions used herein shall be as specified in MIL-PRF-19500.
- 3.3 Interface requirements and physical dimensions. The interface requirements and physical dimensions shall be as specified in MIL-PRF-19500, MIL-HDBK-6100 and on figures 1 (DO-203AB) and figures 2, 3, 4, and 5 for JANHC and JANKC die herein.
- 3.3.1 <u>Lead material and finish</u>. Lead material shall be copper (terminal number 1) with a steel cap on a copper stud (terminal number 2). Lead finish shall be solderable as defined in MIL-PRF-19500, MIL-STD-750, and herein. Where a choice of lead finish is desired, it shall be specified in the acquisition document (see 6.2).
 - 3.4 Marking. Marking shall be in accordance with MIL-PRF-19500.
 - 3.4.1 Marking of JANHC and JANKC die. Marking for JANHC and JANKC shall be in accordance with MIL-PRF-19500
- 3.5 <u>Polarity</u>. The polarity shall be indicated by a graphic symbol with the arrow pointing toward the cathode terminal. The reversed units shall also be marked with an R following the last digit in the type number.
- 3.6 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in 1.3 and table I herein.
 - 3.7 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in 4.4.2 and 4.4.3.

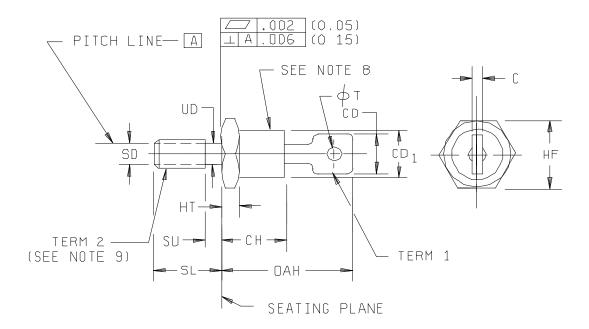
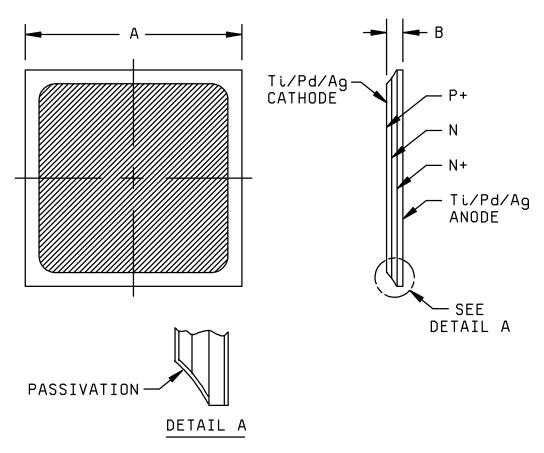


FIGURE 1. Physical dimensions (DO-203AB).

| Ltr | Inches | | Millim | eters | Notes |
|-----------------|--------|-------|--------|-------|-------|
| | Min | Max | Min | Max | |
| CD | | .375 | | 9.53 | 7 |
| С | | .080 | | 2.03 | |
| HF | .669 | .688 | 16.99 | 17.48 | |
| HT | .115 | .200 | 2.92 | 5.08 | |
| СН | | .450 | | 11.43 | |
| OAH | .750 | 1.000 | 19.05 | 25.40 | |
| SL | .422 | .453 | 10.72 | 11.51 | |
| SU | | .090 | | 2.29 | 4 |
| CD ₁ | | .667 | | 16.94 | |
| SD | | | | | 5 |
| UD | .220 | .249 | 5.59 | 6.32 | |
| θТ | .140 | .175 | 3.56 | 4.45 | |

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for information only.
- 3. Units must not be damaged by torque of 30 inch-pound applied to .25-28 UNF-2B nut assembled on thread.
- 4. Length of incomplete or undercut threads of UD.
- 5. Maximum pitch diameter of plated threads shall be basic pitch diameter .2268 inch (5.761 mm).
- 6. A chamfer or undercut on one or both ends of the hex portion is optional; minimum base diameter at seating plane .60 inch (15.2 mm).
- 7. The angular orientation and peripheral configuration of terminal 1 is undefined.
- 8. Standard types shall have cathode connected to stud. Reverse types shall have anode connected to stud.
- 9. Term 2 threads in accordance with FED-STD-H28.

FIGURE 1. Physical dimensions (DO-203AB) - Continued.

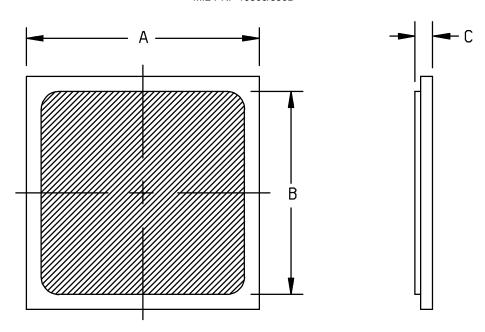


| | Dimensions | | | | | |
|-----|------------|----------|-------------|----------|--|--|
| Ltr | Inc | ches | Millimeters | | | |
| | Min | Max | Min | Max | | |
| А | 0.199 SQ | 0.201 SQ | 5.054 SQ | 5.105 SQ | | |
| В | 0.009 | 0.011 | 0.229 | 0.279 | | |

A version

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for information only.
- 3. Back metal: Ti Pd Ag.
- Dack Metal: Ti Td Ag.
 Top metal: Ti Pd Ag.
 Metallization: Ti = 700 Å; Pd = 700 Å; Ag = 31400 Å.

FIGURE 2. Physical dimensions JANHCA and JANKCA.



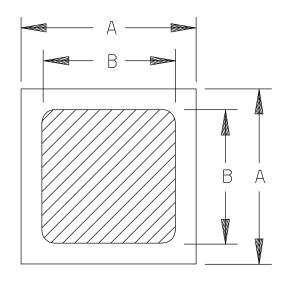
| | Dimensions | | | | | |
|-----|------------|----------|-------------|----------|--|--|
| Ltr | Inc | ches | Millimeters | | | |
| | Min | Max | Min | Max | | |
| Α | 0.191 SQ | 0.201 SQ | 4.851 SQ | 5.105 SQ | | |
| В | 0.173 SQ | 0.183 SQ | 4.394 SQ | 4.648 SQ | | |
| С | 0.009 | 0.010 | 0.229 | 0.254 | | |

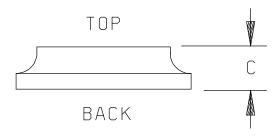
B version

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for information only.

- Metale equivalents are given for information only.
 Back metal: Cr Ni Ag.
 Top metal: Cr Ni Ag.
 Metallization: Cr = 800 Å minimum, Ni = 1.5 Å minimum, Ag = 3000 Å minimum.

FIGURE 3. Physical dimensions JANHCB and JANKCB.



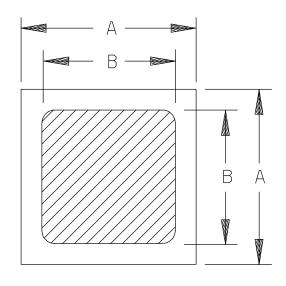


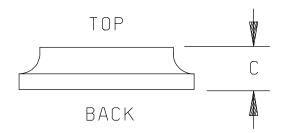
| | Dimensions | | | | | |
|-----|------------|----------|-------------|---------|--|--|
| Ltr | Inc | ches | Millimeters | | | |
| | Min | Max | Min | Max | | |
| Α | 0.196 SQ | 0.202 SQ | 4.98 SQ | 5.13 SQ | | |
| В | 0.177 SQ | 0.183 SQ | 4.50 SQ | 4.65 SQ | | |
| С | 0.006 | 0.012 | 0.15 | 0.30 | | |

C version

- 1 Dimensions are in inches.
- Metric equivalents are given for information only.
 Back (cathode) metal: Silver.
- 4. Top (anode) metal: Silver.

FIGURE 4. Physical dimensions JANHCC and JANKCC.





| | | Dimensions | | | | |
|-----|----------|------------|-------------|---------|--|--|
| Ltr | Inc | ches | Millimeters | | | |
| | Min | Max | Min | Max | | |
| Α | 0.196 SQ | 0.202 SQ | 4.98 SQ | 5.13 SQ | | |
| В | 0.177 SQ | 0.183 SQ | 4.50 SQ | 4.65 SQ | | |
| С | 0.006 | 0.012 | 0.15 | 0.30 | | |

D version

- 1. Dimensions are in inches.
- Metric equivalents are given for information only.
 Back (cathode) metal: Silver.
- 4. Top (anode) metal: Aluminum.

FIGURE 5. Physical dimensions JANHCD and JANKCD.

4. VERIFICATION

- 4.1 <u>Classification of inspections</u>. The inspection requirements specified herein are classified as follows:
 - a. Qualification inspection (see 4.2).
 - b. Screening (see 4.3)
 - c. Conformance inspection (see 4.4).
- 4.2 Qualification inspection. Qualification inspection shall be in accordance with MIL-PRF-19500.
- 4.3 <u>Screening (JANTX, and JANTXV levels only)</u>. Screening shall be in accordance with MIL-PRF-19500 (Appendix E, table IV), and as specified herein. The following measurements shall be made in accordance with table I herein. Devices that exceed the limits of table I herein shall not be acceptable.

| Screen (see appendix E, | Measurement |
|-------------------------------|--|
| table IV of MIL-PRF-19500) | JANTX and JANTXV levels |
| 3b <u>2</u> / | Surge (see 4.3.3) |
| 3c <u>2</u> / | Thermal response (see 4.3.4) |
| 4 | Not applicable |
| 9 | Not applicable |
| 10 | Not applicable |
| 11 | V _{F1} and I _{R1} <u>1</u> / |
| 12 | Burn-in (see 4.3.2) |
| 13 <u>3</u> / | Subgroup 2 of table I herein. $V_{F1} \text{ and } I_{R1}; \Delta V_{F1} \leq \pm \ 0.1 \ V \text{ (pk)}; \\ \Delta I_{R1} \leq \pm \ 5 \ \mu\text{A dc or } 100 \text{ percent from } \\ \text{the initial value, whichever is greater.}$ |

- $\underline{1}$ / I_{R1} measurement shall not be indicative of an open condition.
- 2/ May be performed at any time after screen 3a. Surge shall precede thermal response.
- 3/ Thermal response need not be repeated if previously screened.
- 4.3.1 <u>Screening (JANHC and JANKC)</u>. Screening of die shall be in accordance with MIL-PRF-19500, (appendix G), as a minimum die shall be 100 percent probed in accordance with group A, subgroup 2, except test current shall not exceed 20 A.
 - 4.3.2 <u>Burn-in conditions</u>. Burn-in conditions for all levels are as follows: MIL-STD-750, method 1038, test condition A; $T_C = +125^{\circ}C$, $V_R = 0.8$ to 0.85 rated dc (see 1.3), t = 48 hours.
 - 4.3.2.1 <u>Alternate burn-in conditions</u>. $T_C = +150$ °C, $V_R = \text{rated } V_R$ (see 1.3), $I_O = 0$, f = 50 to 60 Hz, t = 48 hours.

- 4.3.3 <u>Surge current</u>. Surge current, see MIL-STD-750, method 4066. $I_O = 0$; $V_{RWM} = 0$; $I_{FSM} = 800$ A; six surges; $T_A = +25$ °C; $t_D = 8.3$ ms.
- 4.3.4 Thermal response $Z_{\theta JX}$ measurements). The $Z_{\theta JX}$ measurements shall be performed in accordance with MIL-STD-750, method 3101. The $Z_{\theta JX}$ conditions and maximum $Z_{\theta JX}$ limit shall be derived by each vendor and shall not exceed the $R_{\theta JC}$ (see 1.3). The chosen $Z_{\theta JX}$ measurement and conditions for each device in the qualification lot shall be submitted in the qualification report and a thermal response curve shall be plotted. The chosen ΔV_F value shall be considered final after the manufacturer has had the opportunity to test five consecutive lots. $t_H = 100$ to 250 ms; heating current $t_H = 30$ A. Measurement current: 50 mA $\leq t_M \leq 250$ mA; $t_M \geq 250$ µs.
 - 4.4 Conformance inspection. Conformance inspection shall be in accordance with MIL-PRF-19500.
- 4.4.1 <u>Group A inspection</u>. Group A inspection shall be conducted in accordance with appendix E, table V of MIL-PRF-19500 and table I herein.
- 4.4.2 <u>Group B inspection</u>. Group B inspection shall be conducted in accordance with the conditions specified for subgroup testing in appendix E, table VIb (JANTX and JANTXV) of MIL-PRF-19500 and as follows. Electrical measurements (end-points) shall be in accordance with the applicable steps of table I, group A, subgroup 2 (V_{FM1} and I_{R1} only) herein.
 - 4.4.2.1 Group B inspection, appendix E, table VIb (JANTX and JANTXV) of MIL-PRF-19500.

| <u>Subgroup</u> | <u>Method</u> | <u>Condition</u> |
|-----------------|---------------|---|
| B2 | 4066 | T_C = +55°C; V_R = rated V_R (see 1.3); six .083 s surges; 1 surge/minute; I_F (surge) = 800 A dc, I_O = 0. |
| B3 | 1037 | 25 percent rated $I_O \le I_O$ applied \le rated I_O , 2,000 cycles (see 4.5.2). |

- 4.4.3 <u>Group C inspection</u>. Group C inspection shall be conducted in accordance with the conditions specified for subgroup testing in appendix E, table VII of MIL-PRF-19500, and as follows. Electrical measurements (end-points) shall be in accordance with the applicable steps of table I, group A, subgroup 2 (V_{FM1} and I_{R1} only) herein.
 - 4.4.3.1 Group C inspection, appendix E, table VII of MIL-PRF-19500.

| <u>Subgroup</u> | <u>Method</u> | <u>Condition</u> |
|-----------------|---------------|--|
| C2 | 2036 | Tension, test condition A, weight = 10 pounds, t = 15s. |
| | 2036 | Bending stress, test condition F, method B; weight = 15 pounds, $t = 15$ s. |
| | 2036 | Seal torque, test condition D1, torque = 3 inch-pound, t = 15 s. |
| | 2036 | Stud torque, test condition D2, torque = 30 inch-pound, t = 15 s. |
| C6 | 1037 | 25 percent rated $I_O \le I_O$ applied \le rated I_O , 6,000 cycles (see 4.5.2). |

- 4.5 Methods of inspection. Methods of inspection shall be as specified in the appropriate tables and as follows.
- 4.5.1 Pulse measurements. Conditions for pulse measurements shall be as specified in section 4 of MIL-STD-750.
- 4.5.2 <u>DC intermittent operation life</u>. A cycle shall consist of an "on" period, when power is applied suddenly, not gradually, to the device for the time necessary to achieve a delta case temperature of +85°C +15°C -5°C, followed by an "off" period, when the power is suddenly removed, for cooling. Auxiliary (forced) cooling is permitted during the off period only. 30 s \leq t_{heating} \leq 180 s.

- 4.5.3 Reverse recovery time. The reverse recovery time shall be measured as shown in the circuit A of figure 6 or equivalent. Care should be exercised to minimize stray inductances in the test circuit and to ensure that the total resistance of the reverse current loop can be adjusted sufficiently low that more than two amperes will flow if not blocked by the diode being tested. Switch SW shall be activated and the regulated voltage source adjusted to achieve the following characteristics of the waveform:
 - a. The d_i/d_f shall be the specified value between the forward 0.5 ampere point and the reverse 0.2 ampere point.
 - b. The i_r(rec) shall be the maximum value obtainable, except that if it exceeds 2 amperes, the reverse-recovery time shall then be determined from the current waveform as shown in circuit B on figure 3.
- 4.5.4 <u>Thermal resistance</u>. Thermal resistance measurements shall be performed in accordance with MIL-STD-750, method 4081 or method 3101. The case reference temperature shall be held to equilibrium within the range of 20° C to 80° C during the power application, and shall be measured at the hex flat. The maximum limit of $R_{\theta JC}$ shall be 0.8° C/W. The following parameter measurements shall be used:

 $I_{H} = I_{F} \ge 10 \text{ A}.$

 $I_M \le 250 \text{ mA}.$

 $t_{MD} \le 250 \ \mu s.$

TABLE I. Group A inspection.

| Inspection 1/ | | MIL-STD-750 | | Limits | | Unit |
|----------------------------------|--------|---|-------------------|------------------|------|----------------------|
| | Method | Conditions | | Min | Max | |
| Subgroup 1 | | | | | | |
| Visual and mechanical inspection | 2071 | | | | | |
| Subgroup 2 | | | | | | |
| Forward voltage | 4011 | I_{FM} = 70 A (pk); duty cycle \leq 2 percent (pulsed, see 4.5.1) t_P = 300 μ s maximum | V _{FM1} | | .975 | V dc(pk) |
| Forward voltage | 4011 | I_{FM} = 150 A (pk); duty cycle ≤ 2 percent (pulsed, see 4.5.1) t_P = 300 μs maximum | V _{FM2} | | 1.18 | V dc(pk) |
| Reverse current | 4016 | DC method; V_R = rated V_R (see 1.3) | I _{R1} | | 25 | μA dc |
| Subgroup 3 | | | | | | |
| High temperature operation: | | T _C = +150°C | | | | |
| Reverse current | 4016 | DC method; $V_R = \text{rated } V_R \text{ (see 1.3)}$ | I _{R2} | | 30 | mA dc |
| Forward voltage | 4011 | I_{FM} = 70 A (pk); duty cycle \leq 2 percent (pulsed, see 4.5.1) t_P = 300 μ s maximum | V _{FM3} | | .84 | V dc (pk) |
| Low temperature operation: | | T _C = -55°C | | | | |
| Breakdown voltage | 4021 | I _R = 1 mA | V _(BR) | | | |
| 1N6304 1N6305 1N6306 | | | | 50 100 150 | | V dc V dc V dc |
| Subgroup 4 | | | | | | |
| Reverse recovery time | 4031 | Condition B; I_F = 0.5 A dc, I_R = 1 A dc, I_{REC} = 0.25 A dc, d_t / d_t = 85 A/ μ s (minimum), (see 4.5.3 and figure 4) | t _{rr1} | | 50 | ns |
| Reverse recovery time | 4031 | Condition C, $I_{FM} = 70$ A dc, $d_{t}/d_{t} = 130$ A/ μ s (see 4.5.3 and figure 6) | t _{rr2} | | 60 | ns |
| Junction capacitance | 4001 | $V_R = 10 \text{ V, f} = 1 \text{ MHz}$ $V_{sig} = 50 \text{ mV (p-p) maximum}$ | СЈ | | 600 | pF |

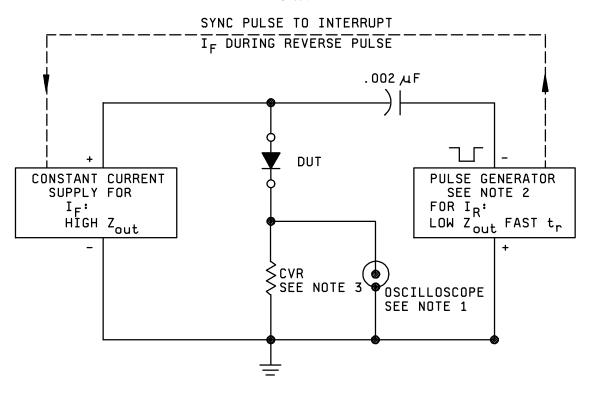
See footnote at end of table.

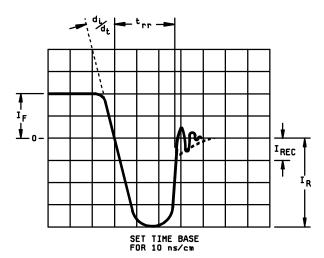
TABLE I. Group A inspection - Continued.

| Inspection 1/ | | MIL-STD-750 | | Liı | mits | Unit |
|--------------------------|--------|---|---------------------|-----|------|-------|
| | Method | Conditions | | Min | Max | |
| Subgroups 5 and 6 | | | | | | |
| Not applicable | | | | | | |
| Subgroup 7 | | | | | | |
| Forward recovery voltage | 4206 | $I_{FM} = 1 \text{ A}, t_p \ge 20 \text{ ns}, t_r = 8 \text{ ns}$ | V _{F(Dyn)} | | 2.2 | V(pk) |
| Forward recovery time | 4026 | I _{FM} = 1 A | ^t fr | | 15 | ns |

^{1/} For sampling plan, see MIL-PRF-19500.

Circuit A





- 1. Oscilloscope: Rise time \leq 1 ns; input impedance = 50 ohms maximum.
- 2. Pulse generator: Rise time ≤ 10 ns; source impedance 50 ohms maximum.
- Current viewing resistor: Noninductive coaxial type with resistance matched to pulse generator impedance. An
 appropriate current probe may be used in place of the C.V.R. A 50 ohm, 60 ns, charge line may be used for the Z_{Out}.

FIGURE 6. Reverse recovery time circuit and waveform.

5. PACKAGING

- 5.1 <u>Packaging</u>. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Points' packaging activity within the Military Department or Defense Agency, or within the Military Departments' System Command. Packaging data retrieval is available from the managing Military Departments' or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.
 - 5.2 Marking. Unless otherwise specified (see 6.2), marking shall be in accordance with MIL-PRF-19500.
 - 6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

- 6.1 Notes. The notes specified in MIL-PRF-19500 are applicable to this specification.
- 6.2 Acquisition requirements. See MIL- PRF-19500.
- 6.3 Qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time of award of contract, qualified for inclusion in Qualified Products List QPL No.19500 whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. Information pertaining to qualification of products may be obtained from Defense Supply Center Columbus, ATTN: DSCC-VQE, 3990 East Broad Street, Columbus, OH 43216-5000.
 - 6.4 Suppliers of JANHC and JANKC die. The qualified die suppliers will be identified on the QPL (example JANHCA1N6304).

| JANHC and JANKC ordering information | | | | | | |
|--------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|--|
| Military PIN | Manufacturer | | | | | |
| | 12969 | 12969 | 59377 | 59377 | | |
| 1N6304 | JANHCA1N6304 | JANKCA1N6304 | JANHCB1N6304 | JANKCB1N6304 | | |
| 1N6305 1N6306 | JANHCA1N6305 JANHCA1N6306 | JANKCA1N6305 JANKCA1N6306 | JANHCB1N6305 JANHCB1N6306 | JANKCB1N6305 JANKCB1N6306 | | |

| JANHC and JANKC ordering information | | | | | |
|--------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|
| Military PIN | Manufacturer | | | | |
| | 12969 | 12969 | 12969 | 12969 | |
| 1N6304 1N6305 | JANHCC1N6304 JANHCC1N6305 | JANKCC1N6304 JANKCC1N6305 | JANHCD1N6304 JANHCD1N6305 | JANKCD1N6304 JANKCD1N6305 | |
| 1N6306 | JANHCC1N6306 | JANKCC1N6306 | JANHCD1N6306 | JANKCD1N6306 | |

6.5 <u>Changes from previous issue</u>. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:

Army - CR Navy - EC Air Force - 17 NASA - NA Preparing activity: DLA - CC

(Project 5961-1968)

Review activities:

Army - AR, MI, SM Navy - AS, CG, MC Air Force - 13, 19, 80, 85, 99

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

- 1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
- 2. The submitter of this form must complete blocks 4, 5, 6, and 7.
- 3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to

| waive any portion of the referenced document(s) or to amend contractual requirements. | | | | | |
|--|---|--|--|--|--|
| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER MIL-PRF-19500/550B | 2. DOCUMENT DATE (YYMMDD) 981020 | | | |
| 3. DOCUMENT TITLE SEMICONDUCTOR DEVICE, DIODE, SILICO JANTXV, JANHC, AND JANKC | ON, FAST-RECOVERY, HIGH CURRENT, TYPES | 1N6305, 1N6306, AND R TYPES, JAN, JANTX, | | | |
| 4. NATURE OF CHANGE (Identify paragraph n | number and include proposed rewrite, if possible. | . Attach extra sheets as needed.) | | | |
| | | | | | |
| 5. REASON FOR RECOMMENDATION | | | | | |
| 6. SUBMITTER | | | | | |
| a. NAME (Last, First, Middle initial) | o. ORGANIZATION | | | | |
| c. ADDRESS (Include Zip Code) | d. TELEPHONE (Include Area Code) Commercial DSN FAX EMAIL | 7. DATE SUBMITTED (YYMMDD) | | | |
| 8. PREPARING ACTIVITY | | | | | |
| a. Point of contact: Alan Barone | b. TELEPHONE Commercial DSN FAX 614-692-0510 850-0510 614-692-6939 | EMAIL alan_barone@dscc.dla.mil | | | |
| c. ADDRESS: Defense Supply Center Columbus, ATTN: DSCC-VAT, 3990 East Broad Street, Columbus, OH 43216-5000 | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 DSN 289-2340 | | | | |
| OD Form 1426 OCT 89 | Previous aditions are obsolete | 198/290 | | | |

DD Form 1426, OCT 89 Previous editions are obsolete 198/290